

8 an interface coupling the network to the bus, the interface and host coordinating to transport bus events between the host and the bus device via tunneling bus events over the network by capturing and encapsulating the bus events into network protocols and subsequently decapsulating the bus events and recreating them, wherein the host runs an application that generates packets for the bus device and relies on an operating system that includes a driver for the bus device that issues the bus device packets and redirects the bus device packets to a network stack that encapsulates the bus device packets to create a network packet and sends the network packet to a remote bus device via the interface, the interface thereafter decapsulating the network packet to obtain the bus device packet and forwarding the bus device packet to the bus device.

31. (Twice amended) A system comprising:

an Internet Protocol (IP) Ethernet network having a host coupled thereto, the host executing software to generate packets for communication on the network:

a serial bus with a bus device coupled thereto, where transfers occur to and from the bus device which adhere to the IEEE-1394 bus standard, wherein the bus device generates isochronous data and the network operates asynchronously, such that isochronous data is transported over an asynchronous network;

an interface coupling the network to the bus, the interface and host coordinating to transport bus events between the host and the bus device via tunneling bus events over the network by capturing and encapsulating the bus events into network protocols and subsequently decapsulating the bus events and recreating them, wherein the bus device generates bus device packets for transport to the host and sends the bus device packets on

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the bus, the interface encapsulating the bus device packets into a network packet and forwards the network packet to the host, the host executing a network driver that decapsulates the network packet, identifies bus device packets therein and redirects the bus device packets to a bus device driver running thereon.

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38. (Twice amended) A system comprising:

an Internet Protocol (IP) Ethernet network having a host coupled thereto, the host executing software to generate packets for communication on the network:

a serial bus with a bus device coupled thereto, where transfers occur to and from the bus device which adhere to the USB bus standard, wherein the bus device generates isochronous data and the network operates asynchronously, such that isochronous data is transported over an asynchronous network;

an interface coupling the network to the bus, the interface and host coordinating to transport bus events between the host and the bus device via tunneling bus events over the network by capturing and encapsulating the bus events into network protocols and subsequently decapsulating the bus events and recreating them, wherein the host runs an application that generates packets for the bus device and relies on an operating system that includes a driver for the bus device that issues the bus device packets and redirects the bus device packets to a network stack that encapsulates the bus device packets to create a network packet and sends the network packet to a remote bus device via the interface, the interface thereafter decapsulating the network packet to obtain the bus device packet and forwarding the bus device packet to the bus device.

39. (Twice amended) A system comprising:

an Internet Protocol (IP) Ethernet network having a host coupled thereto, the host executing software to generate packets for communication on the network:

a serial bus with a bus device coupled thereto, where transfers occur to and from the bus device which adhere to the USB bus standard, wherein the bus device generates isochronous data and the network operates asynchronously, such that isochronous data is transported over an asynchronous network;

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an interface coupling the network to the bus, the interface and host coordinating to transport bus events between the host and the bus device via tunneling bus events over the network by capturing and encapsulating the bus events into network protocols and subsequently decapsulating the bus events and recreating them, wherein the bus device generates bus device packets for transport to the host and sends the bus device packets on the bus, the interface encapsulating the bus device packets into a network packet and forwards the network packet to the host, the host executing a network driver that decapsulates the network packet, identifies bus device packets therein and redirects the bus device packets to a bus device driver running thereon.

Please cancel claim 40 without prejudice.

Please cancel claim 49 without prejudice.

Please cancel claim 53 without prejudice.